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The Spectral Signature of Dust Scattering and Polarization in the Near-Infrared to Far-Ultraviolet. I. Optical Depth and Geometry Effects. *Victor G. Zubko & Ari Laor.* 128, 245 (2000)

STARS: BINARIES: CLOSE

Type Ia Supernova Explosions in Binary Systems: The Impact on the Secondary Star and Its Consequences. *E. Marietta, Adam Burrows, & Bruce Fryxell.* 128, 615 (2000)

STARS: CIRCUMSTELLAR MATTER

SiO Maser Survey of the Galactic Disk *IRAS* Sources. II. $|l| \leq 3°$ and $|b| \leq 3°$, the Galactic Center Area. *Shuji Deguchi, Takahiro Fujii, Hideyuki Izumiura, Osamu Kameya, Yoshikazu Nakada, Jun-ichi Nakashima, Takafumi Ootsubo, & Nobuharu Ukita.* 128, 571 (2000)

STARS: FORMATION

The Formation of Stellar Clusters: Gaussian Cloud Conditions. I. *Ralf S. Klessen & Andreas Burkert.* 128, 287 (2000)

STARS: FUNDAMENTAL PARAMETERS

Calibration of Nebular Emission-Line Diagnostics. I. Stellar Effective Temperatures. *M. S. Oey, M. A. Dopita, J. C. Shields, & R. C. Smith.* 128, 511 (2000)

STARS: LATE-TYPE

SiO Maser Survey of the Galactic Disk *IRAS* Sources. II. $|l| \leq 3°$ and $|b| \leq 3°$, the Galactic Center Area. *Shuji Deguchi, Takahiro Fujii, Hideyuki Izumiura, Osamu Kameya, Yoshikazu Nakada, Jun-ichi Nakashima, Takafumi Ootsubo, & Nobuharu Ukita.* 128, 571 (2000)

STARS: MASS LOSS

The Complex Environment of the High-Excitation Planetary Nebula NGC 3242. *J. Meaburn, J. A. López, & A. Noriega-Crespo.* 128, 321 (2000)

STARS: NOVAE, CATACLYSMIC VARIABLES

Spectroscopic Confirmation of Northern and Equatorial Cataclysmic Variables. III. 32 Poorly Known Objects. *Wu Liu & J. Y. Hu.* 128, 387 (2000)

STARS: PULSARS: GENERAL

A Study of the Populations of X-Ray Sources in the Small Magellanic Cloud with *ASCA*. *Jun Yokogawa, Kensuke Imanishi, Masahiro Tsujimoto, Mamiko Nishiuchi, Katsuji Koyama, Fumiaki Nagase, & Robin H. D. Corbet.* 128, 491 (2000)

STARS: SUPERNOVAE: GENERAL

Type Ia Supernova Explosions in Binary Systems: The Impact on the Secondary Star and Its Consequences. *E. Marietta, Adam Burrows, & Bruce Fryxell.* 128, 615 (2000)

STARS: WOLF-RAYET

Calibration of Nebular Emission-Line Diagnostics. I. Stellar Effective Temperatures. *M. S. Oey, M. A. Dopita, J. C. Shields, & R. C. Smith.* 128, 511 (2000)

SURVEYS

VLBA Observations of Radio Reference Frame Sources. III. Astrometric Suitability of an Additional 225 Sources. *Alan L. Fey & Patrick Charlot.* 128, 17 (2000)

Structural Characteristics of Faint Galaxies Serendipitously Discovered with the *Hubble Space Telescope* WFPC2. *Karen O'Neil, G. D. Bothun, & C. D. Impey.* 128, 99 (2000)

A Three-Position Spectral Line Survey of Sagittarius B2 between 218 and 263 GHz. II. Data Analysis. *A. Nummelin, P. Bergman, Å. Hjalmarson, P. Friberg, W. M. Irvine, T. J. Millar, M. Ohishi, & S. Saito.* 128, 213 (2000)

33.8 GHz CCS Survey of Molecular Cores in Dark Clouds. *Shih-Ping Lai & Richard M. Crutcher.* 128, 271 (2000)

TURBULENCE

The Formation of Stellar Clusters: Gaussian Cloud Conditions. I. *Ralf S. Klessen & Andreas Burkert.* 128, 287 (2000)

X-RAYS: GALAXIES

A Catalog of Soft X-Ray Shadows, and More Contemplation of the 1/4 keV Background. *S. L. Snowden, M. J. Freyberg, K. D. Kuntz, & W. T. Sanders.* 128, 171 (2000)

X-RAYS: GENERAL

A Catalog of Soft X-Ray Shadows, and More Contemplation of the 1/4 keV Background. *S. L. Snowden, M. J. Freyberg, K. D. Kuntz, & W. T. Sanders.* 128, 171 (2000)

X-RAYS: STARS

A Study of the Populations of X-Ray Sources in the Small Magellanic Cloud with *ASCA*. *Jun Yokogawa, Kensuke Imanishi, Masahiro Tsujimoto, Mamiko Nishiuchi, Katsuji Koyama, Fumiaki Nagase, & Robin H. D. Corbet.* 128, 491 (2000)